



Fish Collection System

Produced: August 10, 2011

Water: Middle Branch Escanaba River T/R/S: 45N 25W 21 Status: Approved
Primary county: Marquette
Dis. county: Marquette Survey begin: 06/24/1997 end: 06/25/1997
Special regs: No
Purpose: General Survey
CHECK BROWN TROUT SURVIVAL.
Gear: 2.5 inch mesh mono Gill Net

Gear type: Inland Gill Net Effort date range: 06/24/1997 00:00 - 06/25/1997 00:00
No. of gear used: 4 Effort qty.: 4 Net Nights Area covered:
Coll. site no.: Index site no: T/R/S: 46N 28W 11, 15.
Depth range: 2FT. - 6 FT. Temperature range: Sample sites: 4
Location: FROM THE MOUTH OF BLACK CREEK TO BRIDGE CROSSING IN SECTION 13.
Cover: Very little woody cover. A few boulders and cut banks.
Vegetation: Vallisneria
Fish foods: Insects, minnows present but not identified
Water clarity: VISIBILITY = 2 FT. Level: NORMAL. (*)
Conductivity: Electrofishing eff.: Temp. stratified:
Weather: Mostly sunny Preceding: Thunder showers
Stream length at site: ft. Avg width: ft. Avg depth: ft.
Avg velocity: f/s Surface: f/s Discharge: cfs
Bottom type: Mix of sand, cobble and boulders.
Stream riffle: % Pool: % Run: %

Air temperatures

Reading Datetime	Temperature	Collection/index site no.
06/24/1997 00:00:00	LOW 80'S	

Water temperature/oxygen readings

Date/time	Reading depth	Temperature	Oxygen	pH	Collection/index site no.	SpCond mS/cm
06/24/1997 00:00:00	Surface	67 DEGREES F				



Analysis: (*) LEVEL: NORMAL, 18" BELOW NORMAL HIGH LEVEL.

Four 2.5" inland gill nets were set overnight in the Middle Branch of the Escanaba River. Gill nets were set by canoe. The area netted was from the mouth of Black River, downstream to a rock cut 1/2 mile below the bridge crossing in 46-28-13. This bridge crossing is the site of annual plants of yearling brown trout. Normally, 4,000-5,000 fish are planted.

This netting found 4 brook trout, 5 suckers and 1 northern pike. The brook trout appeared to be in good shape. Two of the fish autopsied were gorged with ants. The pike was checked and had an 8 inch brook trout in its stomach.

There are about twelve cabins along this stretch of river. There is evidence of some angling activity near the bridge crossings and scattered cabins. We talked with two riparians while surveying. One person said no good fishing, while the other said he gets a few browns. Jim Maki (485-1512) has a camp near the spillway below Greenwood Reservoir and says he caught a few brook trout. There are also more walleye in the Middle Branch below Greenwood.

In this stretch of river, West Branch Creek entered but water temperature was the same and beaver were active along this tributary. A cooler (60 degrees) unnamed tributary entered half way between the bridges. At this time, it was 6 inches deep and 5 feet wide. Flow was moderate and a beaver dam in disrepair was at its mouth. There was not enough flow to influence the West Branch but could be a potential spawning tributary--did not check it upstream due to time.

Overall, this section of river looks capable of supporting more trout. There is a lack of cover in the form of logs, and downed trees. No spawning riffles were seen. Anglers report a few browns caught but they don't seem to be staying in this area. Brook trout appear to be doing better and some natural reproduction must be taking place.

Analysis by: R. Harrison, B. Mulzer

Collection by: R. Harrison and B. Mulzer

Id. by: R. Harrison and B. Mulzer



Fish Collection System

Produced: August 10, 2011

Water: Middle Branch Escanaba River Discharge county: Marquette
Survey begin: 06/24/1997 end: 06/25/1997 T/R/S: 45N 25W 21
Survey type: Inland Stream Status: Approved
Primary purpose: General Survey
Note: CHECK BROWN TROUT SURVIVAL.

Gear: No. used	Gear	Common name
4	Inland Gill Net	2 .5 inch mesh mono Gill Net

Species	Number	Percent by number	Weight (lb.)	Percent by weight	Length range (in.)*	Average length (in.)	Percent legal size**
Brook trout	4	40.0	1.9	22.7	10-11		100
IGNET effort 4 Net Nights	4	40.0	1.9	22.7	10-11	11.0	100
White sucker	5	50.0	5.3	63.8	10-15		100
IGNET effort 4 Net Nights	5	50.0	5.3	63.8	10-15	13.7	100
Northern pike	1	10.0	1.1	13.5	17-17		0
IGNET effort 4 Net Nights	1	10.0	1.1	13.5	17-17	17.5	0
All species totals:	10		8.4				

* Note some fish may be measured to 0.1 inch, others to inch group: e.g., "5" = 5.0 to 5.9 inches; "12" = 12.0 to 12.9 inches; etc.

** Percent legal or acceptable size for angling.



Fish Collection System

Reported by Gear Type
Produced: August 10, 2011

Water: Middle Branch Escanaba River

Discharge county: Marquette

Survey begin: 06/24/1997 end: 06/25/1997

T/R/S: 45N 25W 21

Survey type: Inland Stream

Status: Approved

Primary purpose: General Survey

Note: CHECK BROWN TROUT SURVIVAL.

Gear type	Species/strain	Inch group	No. caught	Lbs. caught
Inland Gill Net	Brook trout	10	2	0.82
		11	2	1.08
		Avg. length: 11 in.	Sample totals:	4 1.9
Inland Gill Net	White sucker	10	1	0.45
		12	1	0.77
		14	1	1.2
		15	2	2.92
		Avg. length: 13.7 in.	Sample totals:	5 5.34
Inland Gill Net	Northern pike	17	1	1.13
	Avg. length: 17.5 in.	Sample totals:	1	1.13



Fish Collection System

Produced: August 10, 2011

Water: Middle Branch Escanaba River T/R/S: 45N 25W 21 Status: Field Work Completed
Primary county: Marquette
Dis. county: Marquette Survey begin: 07/16/2010 end: 07/16/2010
Special regs: No
Purpose: Special Study
Data collected to support updates of fish-flow model for water withdrawal assessment tool.
Gear: tow barge with 3 probes

Gear type: Stream Shocker Effort date range: 07/16/2010 09:25 - 07/16/2010 11:00
No. of gear used: 1 Effort qty.: 1500 Feet Area covered:
Coll. site no.: Index site no: T/R/S: 46N 28W 11
Depth range: Temperature range: Sample sites:
Location: From 1500' downstream of CR CG bridge up to bridge
Cover: Moderate amount of overhanging vegetation, sparse boulders, sparse aquatic plants, sparse logs and woody debris.
Vegetation: Sparse aquatic plants
Fish foods: Moderate amount invertebrates
Water clarity: Level: Moderately above normal
Conductivity: 88 Electrofishing eff.: Poor Temp. stratified:
Weather: Clear Preceding: Clear
Stream length at site: 1500 ft. Avg width: ft. Avg depth: ft.
Avg velocity: f/s Surface: f/s Discharge: cfs
Bottom type:
Stream riffle: % Pool: % Run: %

Gear type: Limnology Effort date range: 07/16/2010 09:25 - 07/16/2010 11:00
No. of gear used: Effort qty.: 1500 Feet Area covered:
Coll. site no.: Index site no: T/R/S: 46N 28W 11
Depth range: Temperature range: Sample sites:
Location: From 1500' downstream of CR CG bridge up to bridge
Cover: Moderate amount of overhanging vegetation, sparse boulders, sparse aquatic plants, sparse logs and woody debris.
Vegetation: Sparse aquatic plants
Fish foods: Moderate amount invertebrates
Water clarity: Level: Moderately above normal
Conductivity: 88 Electrofishing eff.: Poor Temp. stratified:
Weather: Clear Preceding: Clear
Stream length at site: 1500 ft. Avg width: 65.14 ft. Avg depth: 2.59 ft.
Avg velocity: 0.86 f/s Surface: f/s Discharge: 88.58 cfs
Bottom type: 4% Detritus/silt, 42% Sand, 42% Gravel, 10% S cobble, 1% L cobble
Stream riffle: % Pool: % Run: 100%

Analysis:

Analysis by: T. Zorn
Collection by: T. Zorn, D. Traynor, K. Koval, G. Kleaver, K. Rathbun, T. Beck
Id. by: D. Traynor

Catch Summary

Water	Middle Branch Escanaba River, Dis. Marquette County T45N R25W S21							
Survey	07/16/2010-07/16/2010							
Gear	tow barge with 3 probes, tow barge with 3 probes							
Effort meas.	1500.00 Feet, 1500.00 Feet						Meas. total: 3000	
Species	Blacknose dace		Brook stickleback		Brook trout		Central mudminnow	
Legal size (in)	>=		>=		>=7.00		>=	
Avg. length (in)	2.4		1.7		5.5		2.5	
Avg. weight (lb)	0.01		0.00		0.09		0.01	
	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.
Total	138	1.11	10	0.00	6	0.52	2	0.01
No. legal	0		0		1		0	
% Legal size					16.67%			
% Total catch	65.71%	53.88%	4.76%	0.00%	2.86%	25.24%	0.95%	0.49%
CPE	0.05	0.00	0.00		0.00	0.00	0.00	0.00
Inch group								
0								
1	44	0.07	8					
2	66	0.47	2		1	0.01	2	0.01
3	28	0.57						
4					1	0.03		
5					3	0.18		
6								
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9					1	0.3		
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Sample total:	138	1.11	10	0.00	6	0.52	2	0.01
Effort date(s):	7/16/2010 9:25 - 7/16/2010 11:00, 7/16/2010 9:25 - 7/16/2010 11:00							
All species total:		Number:	210	Pounds:	2.06			
	From 1500' de up to bridge							

Water	Middle Branch Escanaba River, Dis. Marquette County T45N R25W S21							
Survey	07/16/2010-07/16/2010							
Gear	tow barge with 3 probes, tow barge with 3 probes							
Effort meas.	1500.00 Feet, 1500.00 Feet							
Species	Common shiner		Creek chub		Slimy sculpin			
Legal size (in)	>=		>=		>=		>=	
Avg. length (in)	2.4		2.9		2.1		0.0	
Avg. weight (lb)	0.01		0.01		0.01		0.00	
	No.	Lb.	No.	Lb.	No.	Lb.	No.	Lb.
Total	7	0.04	22	0.24	25	0.14	0	0.00
No. legal	0		0		0		0	
% Legal size								
% Total catch	3.33%	1.94%	10.48%	11.65%	11.90%	6.80%	0.00%	0.00%
CPE	0.00	0.00	0.01	0.00	0.01	0.00		
Inch group								
0								
1	2				9	0.01		
2	4	0.02	17	0.1	16	0.13		
3	1	0.02	3	0.05				
4			1	0.03				
5			1	0.06				
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Sample total:	7	0.04	22	0.24	25	0.14	0	0.00
Effort date(s):								
All species total:								

Middle Branch of the Escanaba River Stocking History

County	Water Site (Town Range Section)	Species Strain	Date	Number	Avg. Length (in.)	Operation	Fin Clips, Marks, Tags
Marquette	Middle Branch Escanaba River CO. RD. CH (46N 28W 03)	Brook trout	07/24/1979	2,500	4.56	State Plant	adipose clip
Marquette	Middle Branch Escanaba River CO. RD. 581 (46N 28W 11)	Brook trout	07/24/1979	2,500	4.56	State Plant	adipose clip
Marquette	Middle Branch Escanaba River CO. RD. 581 (46N 28W 11)	Brook trout	09/24/1979	750	5.28	State Plant	none
Marquette	Middle Branch Escanaba River CO. RD. CH (46N 28W 03)	Brook trout	10/29/1980	10,000	4.4	State Plant	none
Marquette	Middle Branch Escanaba River CO. RD. 581 (46N 28W 11)	Brook trout <i>Assinica/Rome</i>	05/21/1984	3,000	5.56	State Plant	none
Marquette	Middle Branch Escanaba River CO. RD. CH (46N 28W 03)	Brook trout <i>Assinica/Rome</i>	05/21/1984	3,000	5.56	State Plant	none
Marquette	Middle Branch Escanaba River CO. RD. 581 (46N 28W 11)	Brook trout <i>Assinica/Rome</i>	05/31/1985	5,130	5.64	State Plant	none
Marquette	Middle Branch Escanaba River CO. RD. CH (46N 28W 03)	Brook trout <i>Assinica/Rome</i>	05/31/1985	5,130	5.64	State Plant	none
Marquette	Middle Branch Escanaba River CO. RD. 581 (46N 28W 11)	Brook trout <i>Assinica/Rome</i>	05/20/1986	4,930	5.88	State Plant	none
Marquette	Middle Branch Escanaba River CO. RD. CH (46N 28W 03)	Brook trout <i>Assinica/Rome</i>	05/20/1986	4,890	5.88	State Plant	none
Marquette	Middle Branch Escanaba River CO. RD. CH (46N 28W 03)	Brook trout <i>Assinica/Rome</i>	05/08/1987	2,500	6.08	State Plant	adipose clip
	Middle Branch Escanaba River	Brook trout					right

Marquette	CO. RD. 581 (46N 28W 11)	<i>Owhi</i>	05/05/1987	5,000	5.76	State Plant	pectoral clip
Marquette	Middle Branch Escanaba River CO. RD. CH (46N 28W 03)	Brook trout <i>Owhi</i>	05/05/1987	2,500	5.76	State Plant	right pectoral clip
Marquette	Middle Branch Escanaba River SEC 26 (46N 27W 26)	Brown trout <i>Plymouth Rock</i>	05/22/1992	7,000	6.8	State Plant	none
Marquette	Middle Branch Escanaba River SEC 13 (46N 28W 13)	Brown trout <i>Plymouth Rock</i>	05/29/1992	7,000	7.04	State Plant	none
Marquette	Middle Branch Escanaba River SEC 13 (46N 28W 13)	Brown trout <i>Plymouth Rock</i>	05/05/1994	5,700	7.04	State Plant	none
Marquette	Middle Branch Escanaba River SEC 26 (46N 27W 26)	Brown trout <i>Plymouth Rock</i>	06/06/1994	5,700	7.44	State Plant	none
Marquette	Middle Branch Escanaba River SEC 13 (46N 28W 13)	Brown trout <i>Seeforellen</i>	04/29/1997	6,100	5.68	State Plant	none
Marquette	Middle Branch Escanaba River SEC 26 (46N 27W 26)	Brown trout <i>Seeforellen</i>	05/21/1997	4,491	6.16	State Plant	none
Marquette	Middle Branch Escanaba River SEC 26 (46N 27W 26)	Brown trout <i>Soda Lake</i>	05/19/1995	4,400	6.56	State Plant	none
Marquette	Middle Branch Escanaba River SEC 13 (46N 28W 13)	Brown trout <i>Soda Lake</i>	05/19/1995	4,400	6.56	State Plant	none
Marquette	Middle Branch Escanaba River SEC 26 (46N 27W 26)	Brown trout <i>Wild Rose</i>	05/26/1993	2,450	7.88	State Plant	none
Marquette	Middle Branch Escanaba River SEC 26 (46N 27W 26)	Brown trout <i>Wild Rose</i>	05/27/1993	2,450	7.68	State Plant	none
Marquette	Middle Branch Escanaba River SEC 13 (46N 28W 13)	Brown trout <i>Wild Rose</i>	06/17/1993	7,000	7.88	State Plant	none
	Middle Branch Escanaba River	Brown trout					

Marquette	SEC 13 (46N 28W 13)	<i>Wild Rose</i>	05/31/1996	4,230	7.6	State Plant	none
Marquette	Middle Branch Escanaba River SEC 26 (46N 27W 26)	Brown trout <i>Wild Rose</i>	06/11/1996	4,230	8.16	State Plant	none
Marquette	Middle Branch Escanaba River SEC 26 (46N 27W 26)	Brown trout <i>Wild Rose</i>	06/11/1996	2,640	8.24	State Plant	none
Marquette	Middle Branch Escanaba River SEC 13 (46N 28W 13)	Brown trout <i>Wild Rose</i>	05/12/1999	3,000	8.24	State Plant	none
Marquette	Middle Branch Escanaba River CO. RD. 581 (46N 28W 11)	Rainbow trout <i>Harrietta</i>	05/25/1983	3,000	7.36	State Plant	none
Marquette	Middle Branch Escanaba River CO. RD. CH (46N 28W 03)	Rainbow trout <i>Harrietta</i>	05/25/1983	3,000	7.36	State Plant	none